## REPORT DOCUMENTATION PAGE

Form Approved OMB No. 0704-0188

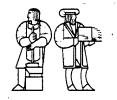
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1. AGENCY USE ONLY (Leave blank)		PE AND DATES COVERED	
		FINAL 15 JU	NE 92 TO 14 DEC 95
4. TITLE AND SUBTITLE			5. FUNDING NUMBERS
(FY91 AASERT) STUDIES OF	F ENHANCED RADAR BA	CKSCATTER	F49620-92-J-0297
			3484/S4 61103D
6. AUTHOR(S)			
PROFESSOR MIN-CHANG LEE			•
			AFOSR-TR-96 G334
7. PERFORMING ORGANIZATION NAME	(S) AND ADDRESS(ES)		$G_{2}_{21}$
BOSTON UNIVERSITY			0339
ELECTRICAL, COMPUSTER & 44 CUMMINGTON STREET	SYSTEMS ENGINEERIN	G	•
BOSTON, MA 02215			
9. SPONSORING/MONITORING AGENCY	NAME(S) AND ADDRESS(ES	)	10. SPONSORING / MONITORING AGENCY REPORT NUMBER
AFOSR/NM			
110 DUNCAN AVE, SUITE B1			
BOLLING AFB DC 20332-8080	)		
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11 SUPPLEMENTARY NOTES			
12a. Distribution Avaidable tratil	2.70 Z.71 .	THE PARTY OF THE P	1.25 DISTRIBUTION CODE
APPROVED FOR PUBLIC RELEA	ASE:		
DISTRIBUTION UNLIMITIED			1
13. ABSTRACT (Maximum 200 words)			
The AFOSR grant F49620-92	2 <b>-</b> J <b>-</b> 0297 has been u	sed to support	U.S. graduate students
for research on ionospher	ric plasma distruba	nces and effect	s on radio wave propagation

The accomplished graduate research work is briefly described./

## 19960627 052

14. SUBJECT TERMS			15. NUMBER OF PAGES
			16. PRICE CODE
17. SECURITY CLASSIFICATION OF REPORT	18. SECURITY CLASSIFICATION OF THIS PAGE	19. SECURITY CLASSIFICATION OF ABSTRACT	20. LIMITATION OF ABSTRACT
unclassified NSN 7540-01-280-5500	unclassified	unclassified	SAR randard Form 298 (Rev. 2.41)



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Submitte already

To:

Dr. James T. Kroll, Air Force Office of Scientific Research

From: Prof. Min-Chang Lee

Date: February 8, 1996

Subject: Final Report for "Studies of Enhanced Radar Backscatter" (F49620-92-J-0297)

The AFOSR grant F49629-92-J-0297 has been used to support U.S. graduate students for research on ionospheric plasma disturbances and effects on radio wave propagation. The accomplished graduate research work is briefly described as follows:

Michael J. Starks has completed his Master of Science (M.S.) thesis under my supervision for the analysis of data recorded at Arecibo, Puerto Rico and the development of a theory to interpret the Arecibo experimental results. His work was presented in a paper at the 1996 National Radio Science meeting in Boulder, Colorado. Attached are the abstract of this paper and a copy of his M.S. Thesis entitled "Gravity wave seeding of Perkins' instability and HF-amplified spread F over Arecibo, Puerto Rico".

Another two U.S. graduate students, Virginia Ewell and Jane Vladimer have been partially supported by this grant that expired on December 31, 1995. The continuing work of these two graduate students will be supported by another AFOSR grant F49620-94-1-0365.